DIRE, BRONSTEIN, ROBERTS & CUSHMAN, LLP 130 Water Street Boston, Massachusetts 02109

Att rn y's D cket No. 49,386 (1995)

Pag 1 of 4

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEMS	AND METHODS FOR SPINAL FIXATION
which is o	lescribed and claimed in:
	the specification attached hereto.
⊠	the specification in U.S. Application Serial Number 09/536,732, filed on March 28, 2000.
	the specification in PCT international application Number, filed on, and was amended on
Ιħ	ereby state that I have reviewed and understand the contents of the above identified

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Application No.	Filing Date	Country	Priority Claim d Under 35 U.S.C. §119?
			□YES □NO

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applications r PCT International Applications Designating th U.S-Ben fit Under 35 U.S.C. 8120

	Onder 35 U.S.C. 9120		3	
U.S. Applicati ns			atus (Ch ci	t One)
Applicati n Serial N .	U.S. Filing Date	Patented	P nding	Aband ned
				,
PCT Applications Designat	ting the U.S.			
Applicati n No. Filing Date	U.S. Serial No. Assigned			
			* 42	

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. §119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application	Filing Date
	Number	
Carl et al.	60/133,356	May 10, 1999

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

	A Property of the Control of the Con				
Sewall P. Bronstein	(Reg. No. 16,919)		William J. Daley, Jr.	(Reg. No.	35,487)
Peter J. Manus	(Reg. No. 26,766)		Cara Z. Lowen	(Reg. No.	38,227)
George W. Neuner	(Reg. No. 26,964)		David Tucker	(Reg. No.	27,840)
David G. Conlin	(Reg. No. 27,026)		Robert L. Buchanan	(Reg. No.	40,927)
Peter F. Corless	(Reg. No. 33,860)		Christine O'Day	(Reg. No.	38,256)
Linda M. Buckley	(Reg. No. 31,003)		George Hartnell	(Reg. No.	42,639)
Lisa Swiszcz Hazzard	(Reg. No. 44,368)		Jennifer K. Holmes	(Reg. No.	P-46,776)
		2 × 1	Kerri Pollard Schray	Reg. No.	P-47,066)

SEND CORRESPONDENCE TO:

William J. Daley, Jr., Esq.
Dike, Bronstein, Roberts & Cushman
Intellectual Property Practice Group
EDWARDS & ANGELL, LLP
130 Water Street
Boston, Massachusetts 02109

DIRECT TELEPHONE CALLS TO:

William J. Daley, Jr., Esq. (617) 523-3400

	FULL NAME OF INVENTOR	LAST NAME Carl	FIRST NAME Allen	MIDDLE NAME
2 0 1	RESIDENC E & CITIZENSH IP	CITY Slingerlands	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP u.s.
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 308 Highgate Drive	CITY Slingerlands	STATE OR COUNTRY AND ZIP CODE New York 12159

	FULL NAME OF INVENTOR	LAST NAME Hart	FIRST NAME Ricky	MIDDLE NAME D.
2 0 2	RESIDENC E & CITIZENSH	CITY Plainville	STATE OR FOREIGN COUNTRY Massachusetts	COUNTRY OF CITIZENSHIP U.S.
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 11 Hillside Road	CITY Plainville	STATE OR COUNTRY AND ZIP CODE Massachusetts 02762

	FULL NAME OF INVENTOR	LAST NAME Winkler	FIRST NAME Josef	MIDDLE NAME K.
0 3	RESIDENC E & CITIZENSH IP		STATE OR FOREIGN COUNTRY Pennsylvania	COUNTRY OF CITIZENSHIP U.S.
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 2318 Gring Drive	CITY Reading	STATE OR COUNTRY AND ZIP CODE Pennsylvania 19609

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Signature of Inventor 202
Date:	Date:
Signature of Inventor 203	
Date: // 135948	

Practitioner's Docket No. 49,386 (1995)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

[X] In re application of: A. Carl et al. [X] Application No.: 09/536,732 [X] Filed on: March 28, 2000	[] Patentee [] Patent No.: [] Issued on:
Title: SYSTEMS AND METHODS FOR SE	PINAL FIXATION
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Alming Small entity status 27(b)—Small Business Concern
I hereby state that I am	
	ness concern identified below: usiness concern empowered a act on behalf of the concern
Name of Small Business Concern Hi Address of Small Business Concern Or	shgate Orthopedics, Inc. ne Walnut Street, Boston, MA 02108
as defined in 13 CFR 121.12, and reproduct United States Patent and Trademark Office that the number of employees of the concer. For purposes of this statement, (1) the number previous fiscal year of the concern of the during each of the pay periods of the fiscal	ied small business concern qua ifies as a small business concern, ed in 37 CFR 1.9(d), for purposes of paying reduced fees to the under Sections 41(a) and (b) of Title 35, United States Code, in including those of its affiliates, does not exceed 500 persons, ber of employees of the business concern is the average over the persons employed on a full-time, part-time or temporary basis I year, and (2) concerns are affiliates of each other when either, or has the power to control the other, or a third-party or parties
I hereby state that rights under conbusiness concern identified above, with regi	stract or law have been conveyed to, and remain with, the small and to the invention described in
[] the specification filed herewith [X] the application identified above.	

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

(Smt Il Entity-Small Business -page 1 of 3)

NOTE:	Separate statements are required from each named person, concern or organization having rigin invention as to their status as small entities. (37 CFR 1.27)
	Each such person, concern or organization having any rights in the invention is listed below
	[X] No such person, concern, or organization exists. [] Each such person, concern or organization is listed below.
FULL	NAME
ADDE	RESS
	# : : # [[[[]]] [] [] [] [] [] []
[] און	DIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROPIT ORGANIZATION
,	
FULL	NAME
ADDI	RESS
	DROCKET CLEMALL PLISTNESS CONCERN EL NONEDOST ORGANIZATION

I acknowledge the duty to file, in this application or patent, not fication of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 CFR 1.28(b))

(check the following item, if desired)

NOTE: The following verification statement need not be made in accordance with the riles published on October 10, 1997, 62
Fed. Reg. 52131, affective December 1, 1997.

NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, 1 say result in the imposition of sunctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also to subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 C.F.R. § 1.4(d)(2).

I bereby declare that all statements made herein of my own knowledge are true and that all [X]statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing KEVIN G. CONNOLS
Title f Person if Other Than Owner PRESIDENT

Address of Person Signing ONE WALNUT STUSET BOSTON MO OZIO &

141983



UNITED STALES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DECEMBER 27, 2000

PTAS

DIKE, BRONSTEIN, ROBERTS ET AL WILLIAM J. DALEY, JR. INTELLECTUAL PROPERTY PRACTICE GROUP 130 WATER STREET BOSTON, MA 02109



JAN 0 8 2001

DIKE BRUNSTEIN ROBERTS CUSHMAN

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/23/2000

REEL/FRAME: 011189/0565

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CARL, ALLEN

DOC DATE: 09/16/2000

ASSIGNOR:

HART, RICKY D.

DOC DATE: 08/29/2000

ASSIGNOR:

WINKLER, JOSEF K.

DOC DATE: 09/07/2000

ASSIGNEE:

HIGHGATE ORTHOPEDICS, INC. ONE WALNUT STREET BOSTON, MASSACHUSETTS 02108

SERIAL NUMBER: 09536732

PATENT NUMBER:

FILING DATE: 03/28/2000

ISSUE DATE:

011189/0565 PAGE 2

MARY BENTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) Copyright 1996-97 LegalStar P08A/REV02 RECORDA

11-02-2000

.: 49,386 (1995)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

▼

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Tab setungs V	101000709
	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): 10 · 23·00	2. Name and address of receiving party(ies):
Allen Carl	Name: Highgate Orthopedics, Inc.
Ricky D. Hart Josef K. Winkler	Address: One Walnut Street
Additional names(s) of conveying party(ies)	
3. Nature of conveyance:	23
☐ Security Agreement ☐ Change of Name	City: Boston State/Prov.: MA
□ Other	Country: USA ZIP: 02108
Execution Date: 8/29/00; 9/7/00; 9/16/00	Additional name(s) & address(es) ☐ Yes ☒ No
Application number(s) or registration numbers(s):	
If this document is being filed together with a new application,	the execution date of the application is:
Patent Application No. Filing date	B. Patent No.(s)
09/536,732 March 28, 2000	
이 경기를 잃어 보는 사람이 얼룩한 것이 됐다.	
Additional numbers	☐ Yes ☒ No
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved:
Name: William J. Daley, Jr.	7. Total fee (37 CFR 3.41):\$ 40.00
Registration No. 35,487	☑ Enclosed - Any excess or insufficiency should be
Address: Dike, Bronstein, Roberts & Cushman,	credited or debited to deposit account
Intellectual Property Practice Group,	☐ Authorized to be charged to deposit account
EDWARDS & ANGELL, LLP, 130 Water Street	
City: Boston State/Prov.: MA	8. Deposit account number:
Country: USA ZIP: 02109	04-1105
/02/2000 GTON11 00000071 09536732 DO NOT U	ISE THIS SPACE
FC:581 40.00 OP	
Statement and signature. To the best of my knowledge and belief, the foregoing informa of the original document.	tion is true and correct and any attached copy is a true copy
William J. Daley, Jr.	- 1 Dales C October 19, 2000
Name of Person Signing	Signature Date

Total number of pages including cover sheet, attachments, and

Docket No.: 49,386 (1995) Page 1 of 2

ASSIGNMENT

We, Allen Carl, Ricky D. Hart, and Josef K. Winkler, for good and valuable consideration from Highgate Orthopedics, Inc., a Delaware corporation, having its principal place of business at One Walnut Street, Boston, Massachusetts 02108, hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States, entitled SYSTEMS AND METHODS FOR SPINAL FIXATION and under an application for Letters Patent, having a Serial Number of 09/536,732 and a filing date of March 28, 2000, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration, we agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of the them described in said application and all patent rights therein, in the United States and in any country foreign thereto.

The undersigned Assignor also hereby grants the law firm of Dike, Bronstein, Roberts & Cushman, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office including the Serial Number for the above-referenced patent application for Letters Patent of the United States.

	Sentember	I, Allen Carl, hereunto s	set my hand and seal 7 D. Hart, hereunto se	
seal this	day of		D, and I, Josef K. Win	
set my hand and s	eal this	day of	, 2000.	
alla C	Q	mille	inte 9/2/00	
Allen Carl		Josef K. Winkler		
RSH	-d29/00			
Ricky D. Hart	1)			

ASSIGNMENT (Cont.)

New York	
Commonwealth of Massachusetts	
County of Hony ss.	
Before the 160-1 day of S describe a 00	70
Before the this 1074 day of Septement	, personany appeared Anen
Carl, who is to me personally known, and acknowledged the fo	regoing instrument of
assignment to be his free act and deed.	
ROSEMARY LOMBARDO	over what
Notary Public, State of New York Rensselaer County	Notary Public
Reg. No. 01L04887453 // a/	ivotaty i ubile
My Commission Expires	
Commonwealth of Massachusetts	
County of B_{r-r} $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$	
Before me this 1st day of September	, personally appeared Ricky
D. Hart, who is to me personally known, and acknowledged the	e foregoing instrument of
assignment to be his free act and deed.	
	Notary Public
	ivotary i tronic
Pennsylvania	
Commonwealth of Massachusetts	
County of Book S ss.	
oth coto	이 있는 사람이 얼마나 하는 것이 없다.
Before me this 8th day of September	
K. Winkler, who is to me personally known, and acknowledged	the foregoing instrument of
assignment to be his free act and deed.	
gar naman liberah kalandar a ing kalandar kalandar 🔾	Thorn & Bad
)	Notary Public
NOTARIAL SEAL	Tiotary raphe 7
SHARON G. BADY, Notary Public	
141978 Wyomissing, Berks County, PA	